

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_7\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 9/20/2017  
 [UPDATE] 3/9/2018  
 [LUMCAT] C1216XT-10L-xxK-WD-EX-TCY-NL  
 [LUMINAIRE] Nom. 12" Diam. x 12" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Wide Beam  
 [OTHER] No Lens  
 [OTHER] 38.0 Degree Beam Angle  
 [OTHER] Aimed at 0 Degrees  
 [LAMPCAT] N/A, 19mm LES  
 [LAMP] N/A, 83 CRI  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6902	8154	7674
55	1255	1331	1267
65	1398	1453	1563
75	1712	1838	1869
85	3323	2814	3061

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220
5	1486.349	1506.064	1498.172	1500.025	1474.405	1438.336	1440.978	1405.597	1407.643	1379.176
10	1290.447	1323.817	1307.259	1314.939	1271.040	1216.112	1212.132	1166.831	1164.915	1127.688
15	1031.543	1071.089	1051.352	1061.997	1015.707	960.724	955.811	911.698	906.167	873.446
20	764.003	803.843	788.993	804.961	767.950	722.819	720.140	680.038	675.130	643.117
25	539.418	571.754	562.815	582.455	556.159	522.037	520.629	487.914	484.523	459.951
30	395.897	414.186	411.740	423.960	408.757	386.668	383.203	366.803	362.697	351.083
35	319.722	327.352	331.269	334.950	327.227	311.125	302.691	292.813	283.006	272.165
40	210.568	235.621	234.691	241.623	220.756	190.611	194.114	158.932	160.344	129.850
45	69.637	94.377	82.266	101.736	77.421	58.877	57.098	42.789	39.375	32.020
50	15.145	15.123	18.454	17.866	16.578	13.580	12.669	11.631	12.305	11.763
55	10.267	10.076	10.893	10.754	10.369	11.331	11.854	11.385	11.646	10.866
60	9.659	9.056	9.527	9.844	9.933	11.036	11.437	11.666	11.311	10.938
65	8.430	8.572	8.764	8.420	9.425	10.878	10.890	11.464	11.349	11.034
70	6.502	7.635	7.803	7.373	7.890	11.105	10.789	10.742	10.749	9.833
75	6.322	6.443	6.787	7.256	6.901	10.678	10.969	10.390	10.890	10.630
80	5.376	6.286	5.677	5.705	6.095	10.265	10.417	10.752	11.835	10.950
85	4.132	3.842	3.500	4.423	3.807	8.811	9.019	8.128	8.674	8.151
90	0.689	0.351	0.766	0.379	0.933	5.305	3.228	4.983	3.069	5.644
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220	1534.220
5	1393.239	1375.842	1409.718	1449.040	1454.793	1480.526	1486.349
10	1142.540	1124.367	1167.847	1227.276	1235.137	1282.161	1290.447
15	880.306	867.207	905.132	963.158	970.957	1022.281	1031.543
20	652.776	634.445	666.471	712.970	714.014	758.381	764.003
25	463.168	452.322	472.831	505.344	504.909	536.246	539.418
30	350.200	346.371	356.010	374.164	374.908	393.041	395.897
35	270.904	264.261	276.207	295.531	304.791	311.781	319.722
40	141.548	124.477	151.319	180.225	179.143	208.482	210.568
45	27.787	30.253	35.544	51.053	49.198	71.045	69.637

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES****CANDELA TABULATION - (Cont.)**

50	12.192	11.570	11.957	10.912	12.967	11.993	15.145
55	10.863	10.744	11.176	10.125	10.225	9.503	10.267
60	10.667	10.561	10.439	8.915	8.909	9.685	9.659
65	10.477	9.900	9.756	7.437	7.810	8.921	8.430
70	10.064	9.354	9.857	6.454	6.717	7.035	6.502
75	10.334	10.248	10.106	6.092	5.766	6.813	6.322
80	10.641	10.743	10.466	5.182	5.750	4.780	5.376
85	7.772	8.764	8.325	3.053	3.034	3.741	4.132
90	3.581	5.778	6.738	0.326	0.510	0.367	0.689
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	399.72	N.A.	43.50
0-30	642.35	N.A.	69.90
0-40	824.11	N.A.	89.70
0-60	893.54	N.A.	97.20
0-80	911.99	N.A.	99.20
0-90	918.26	N.A.	99.90
10-90	787.25	N.A.	85.70
20-40	424.39	N.A.	46.20
20-50	483.69	N.A.	52.60
40-70	78.89	N.A.	8.60
60-80	18.45	N.A.	2.00
70-80	8.99	N.A.	1.00
80-90	6.27	N.A.	0.70
90-110	0.73	N.A.	0.10
90-120	0.73	N.A.	0.10
90-130	0.73	N.A.	0.10
90-150	0.73	N.A.	0.10
90-180	0.73	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	918.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.01
10-20	268.71
20-30	242.63
30-40	181.76
40-50	59.29
50-60	10.13
60-70	9.46
70-80	8.99
80-90	6.27
90-100	0.73
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES

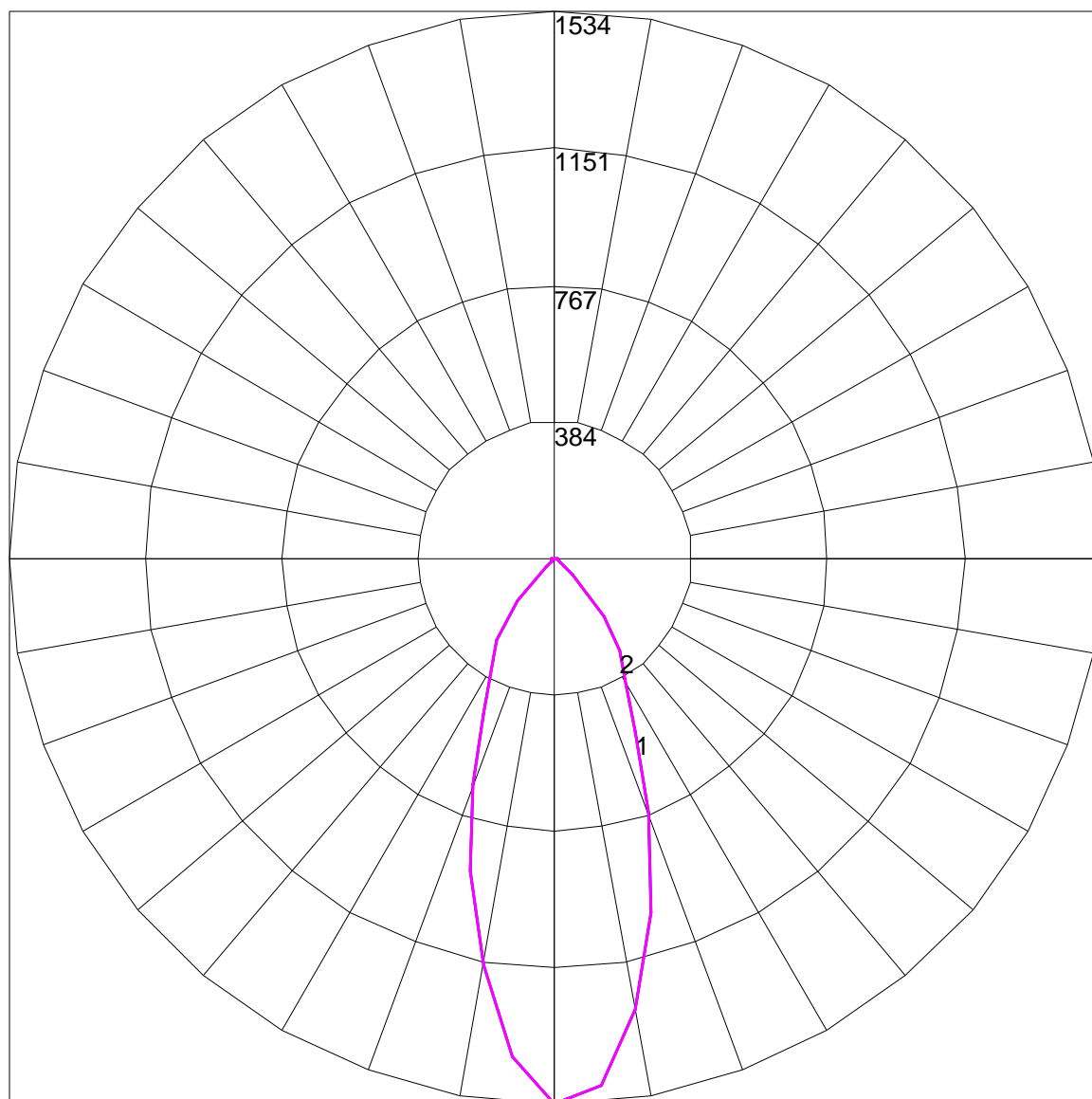
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-10LXXK-WDEX-TCY-NLXXMW.IES

POLAR GRAPH



Maximum Candela = 1534.22 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)